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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/691,053	10/19/2000	Zvia Agur	Q60688	5359
7	590 04/08/2002			
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			EXAMINER	
2100 PENNSYLVANIA AVENUE, N.W. WASHINGTON, DC 20037-3213			MORAN, MARJORIE A	
			ART UNIT	PAPER NUMBER
			1631	
			DATE MAILED: 04/08/2002	//

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Course	09/691,053	AGUR ET AL.
Office Action Summary	Examiner	Art Unit
•	Marjorie Moran	1631
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wit	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a re eply within the statutory minimum of thirty od will apply and will expire SIX (6) MONT	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication.
Status		
1) Responsive to communication(s) filed on		
	This action is non-final.	
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims	wance except for formal matte	ers, prosecution as to the merits is
Disposition of Claims	. Ex parto Quayro, 1995 C.D	. 11, 400 O.G. 213.
. 4)⊠ Claim(s) <u>1-509</u> is/are pending in the applicat		
4a) Of the above claim(s) is/are withdra	awn from consideration.	•
5) Claim(s) is/are allowed.		
6) ☐ Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8)⊠ Claim(s) <u>1-509</u> are subject to restriction an Application Papers	d/or election requirement.	
9)☐ The specification is objected to by the Examin	er.	,
10) ☐ The drawing(s) filed on is/are: a) ☐ acce		e Examiner
Applicant may not request that any objection to the	he drawing(s) be held in abevan	ce. See 37 CFR 1 85(a)
11) The proposed drawing correction filed on	_ is: a) ☐ approved b) ☐ disa	approved by the Examiner
If approved, corrected drawings are required in re	eply to this Office action.	The state of the s
12) ☐ The oath or declaration is objected to by the Ex	xaminer.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 1	19(a)-(d) or (f).
a)☐ All b)☐ Some * c)☐ None of:		., , , , ,
 Certified copies of the priority document 	ts have been received.	
2. Certified copies of the priority document	ts have been received in App	lication No.
3. ☐ Copies of the certified copies of the prio application from the International But	rity documents have been re	ceived in this National Stage
* See the attached detailed Office action for a list 14) Acknowledgment is made of a claim for demonstration.	io priority and a 25 H C C	ceived.
14) Acknowledgment is made of a claim for domesti	ovisional applications to the	l19(e) (to a provisional application)
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domest 	ic priority under 35 H S C &8	1 received. 5120 and/or 121
ttachment(s)	,,	120 GHU/OF [2],
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Info	nmary (PTO-413) Paper No(s) mal Patent Application (PTO-152)
Patent and Trademark Office O-326 (Rev. 04-01) Office Ac	ction Summary	Part of Paper No. 11

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Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-49, 274-315, and 506-509, drawn to computer systems, methods, and a computer program product for recommending an optical treatment protocol, classified in class 702, subclass 19.
- II. Claims 50-65 and 316-331, drawn to a computer system and method to predict progression of a biological process in a patient, classified in class 702, subclass 19.
- III. Claims 66-117 and 332-349, drawn to systems and methods for modeling thrombopoietic lineage in an individual, classified in class 703, subclass 11.
- IV. Claims 118-167 and 350-399, drawn to systems and methods for predicting progression of thrombopoiesis and trombocytopenia, classified in class 702, subclass 19.
- V. Claims 168-201 and 400-433, drawn to systems and methods for modeling neutrophil lineage in an individual, classified in class 703, subclass 11.
- VI. Claims 202-233 and 434-465, drawn to a system and methods for predicting progression of granulopoiesis, classified in class 702, subclass 19.
- VII. Claims 234-247 and 466-493, drawn to a computer system and method for recommending an optimal treatment protocol for cancer using drugs, classified in class 128, subclass 920.
- VIII. Claims 248-273 and 494-505, drawn to computer systems and a method for predicting the progression of cancer in patients, classified in class 128, subclass 920.

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The inventions are distinct, each from the other because of the following reasons:

Inventions I-VIII are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are directed to systems and methods for performing different functions. The methods of each of Group recite different steps, use of different products, and are directed to different results. In addition, the method of each Group may be performed without knowledge of the steps or results of the method of any other Group. As the systems and programming code are those for performing the method(s) of each Group, the systems and code of each Group are also unrelated to those of any other Group for the same reasons as set forth for the methods.

Because these inventions are distinct for the reasons given above and the search required for Groups II-VIII is not required for Group I, the search required for Groups III-VIII is not required for Group II, the search for Groups I-II and VI-VIII is not required for Group III, etc., restriction for examination purposes as indicated is proper.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

All arguments with regard to rejections of record are held in abeyance pending response to this restriction requirement.

Conclusion

Claims 1-509 are pending, and are restricted.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marjorie A. Moran whose telephone number is (703) 305-2363. The examiner can normally be reached on Monday to Friday, 7:30 am to 4 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Woodward can be reached on (703) 308-4028. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-4242 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to a patent analyst, Tina Plunkett, whose telephone number is (703) 305-3524.

Marjorie A. Moran

Examiner Art Unit 1631

April 3, 2002